TOBACCO INDUSTRY RESEARCH COMMITTEE 350 FIFTH AVENUE NEW YORK 1, N. Y.

Application For Research Grant

#161 (Cf. #97 activated _7/1/55 and renewed _7/1/56).

Date: May 29, 1957

1. Name of Investigator:

J. Edwin Wood

2. Title

Instructor in Medicine Boston University School of Medicine

3. Institution & Address:

Massachusetts Memorial Hospitals
Evans Memorial
65 East Newton Street
Boston 18, Massachusetts

4. Project or Subject:

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The acute effect of inhalation of tobacco smoke and of a cool environment upon reactive hyperemia blood flow of the calf segment of normal individuals and patients suffering peripheral vascular disease of this muscular segment.

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5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

The purpose of this study would be to determine whether or not the depressant effect of tobacco smoking and of a cool environment upon reactive hyperemia of the akin (foot) also occurs in the limb segment. Of particular interest in this regard would be the patients who suffer intermittent claudication and who are relieved by sympathectomy. Since this depressant effect upon reactive hyperemia is apparently mediated via the sympathetic nervous system, the question arises as to whether or not the beneficial effects of sympathectomy upon intermittent claudication have to do with these stimuli interfering with removal of the products of metabolism.

· 公共工作的第三人称单数 医多种原理 (1985年)

The protocol of the experiment will be essentially the same as that used for the studies of foot circulation except that plethysmographic studies of the calf segment with arterial occlusion at the ankle will be used. The subject will be exposed to a room temperature of 83 degrees for a period of one hour or whatever period is required to achieve basal blood flows, following which a 15 minute control period of blood flows will be obtained. Arterial occlusion of 5 minutes duration followed by measurement of blood flows at short intervals will be carried out. The patient will then smoke two cigarettes at his own rate and the above experiment will be represented during the course of his smoking the two cigarettes. Methods of measuring blood flow and analysis of results will be the same as that utilized in studies of limb segment reactive hyperemia described by Wood et al, Circulation Research 3: 581, 1955. In essence the method reveals the quantity of blood which passes through the limb in the immediate post-ischemia period.

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6. Budget Plan: Selectes for technical and secretarial assistance \$2,500.

Salaries
Expendable Supplies
Permanent Equipment
Overhead
Other

\$2,500 300 500 \$3,100

7. Anticipated Duration of Work:

8. Facilities and Staff Available: Partities available remain the name as before; namely, sometant temperature room with all the necessary plethymographic and recording aquipment. Project to be directed by ir. J. Edgin Wood. Br. Jay D. Cordon who has devoted a portion of his time to this project during the temper of the present TIRC grant would continue as a part-time investigator in this program. Hiss Narbara Sears who has participated as a technical assistant during the course of the first two TIRC grant years will continue in that capacity during the third year. Br. Robert W. Wilkins, Director of the Cardiovescular Division, Swans Mamorial, will be available at all times for consultation with regard to this project.

9. Additional Requirements:

No additional regulrements

10. Additional Information (Including relation of work to other projects and other sources of supply):

Results of previous studies carried out under the suspices of the TIRC have been published under the title "Comparative vanoconstrictor effects of inhaling tobacco smoke in were and cool environments and before and after shetimenes from tobacco," by Eckstein, J. W., Wood, J. E., and Vilkins, R. W., American Heart J. 53: 455, March 1957. Also, in abstract form, results of studies cerried out during the present grant year are reported in the Proceedings of the American Society for Clinical Investigation under the title "Reduction of reactive hypersmin blood flow of the foot by tobacco sacking," by Wood, J. E., and Coffeen, J. D.

Signature S. J. EININ WOOD

Director of Project J. Bissis Wood

/s./ WALLER C. LANS, M.D.

Business Officer of the Institution

Walter C. Lamb, M.D. Assistant

Source: https://www.industrydocuments.ucsf.edu/docs/xpll0000

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Business Officer of the Institution

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